



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_15230
Title of the Manuscript:	The Optimal homotopy analysis methods for solving the linear and non-linear Fokker-Planck equations
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Authors implemented the classical HAM method to the well-known linear and non-linear Fokker-Planck equations. I have serious concerns: 1)- There are several relevant literature missed out by the investigators, such as “Purely analytic solutions of the compressible boundary layer flow due to a porous rotating disk with heat transfer, Physics of Fluids, Volume 21, Issue 10, 2009, Article number 106104” and “Analytic approximate solutions of rotating disk boundary layer flow subject to a uniform suction or injection, International Journal of Mechanical Sciences, Volume 52, Issue 12, December 2010, Pages 1735-1744”. 2) - Authors should try a linear/nonlinear Fokker-Planck equation whose exact solution is not obtainable, in order to convince that the method is valid indeed. 3) - One of the shortcomings of the HAM method is its convergence issue. A convergence criterion for the technique may be obtained as in the articles “Solution of the Thomas–	1. We had cited your valuable reference. 2. For convergence part we are working on method that suggested by your valuable reference, and if we success you can see it in our co sequent articles.



SDI Review Form 1.6

	Fermi equation with a convergent approach, <u>Communications in Nonlinear Science and Numerical Simulation</u>, Volume 17, Issue 11, November 2012, Pages 4097–4103” and “Convergence of the homotopy perturbation method, 2011, International Journal of Nonlinear Sciences and Numerical Simulation, 12 (1-8), pp. 9-14”. So, it is better if the authors try this technique to show that convergence is guaranteed.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		